



SEQUENCE LISTING

<110> Klessig, Daniel F.
Zhang, Shuqun

<120> METHODS OF USING A PATHOGEN-ACTIVATABLE
MAP KINASE TO ENHANCE DISEASE RESISTANCE IN PLANTS

<130> RUT98-0073

<140> 09/623,034

<141> 2000-08-24

<150> PCT/US99/03882

<151> 1999-02-23

<150> 60/075,685

<151> 1998-02-24

<160> 2

<170> FastSEQ for Windows Version 3.0

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 35 40 45
 Ile Gly Arg Gly Ala Tyr Gly Ile Val Cys Ser Val Leu Asn Thr Glu
 50 55 60
 Leu Asn Glu Met Val Ala Val Lys Lys Ile Ala Asn Ala Phe Asp Ile
 65 70 75 80
 Tyr Met Asp Ala Lys Arg Thr Leu Arg Glu Ile Lys Leu Leu Arg His
 85 90 95
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 100 105 110
 Leu Arg Arg Glu Phe Ser Asp Val Tyr Ile Ala Thr Glu Leu Met Asp
 115 120 125
 Thr Asp Leu His Gln Ile Ile Arg Ser Asn Gln Gly Leu Ser Glu Asp
 130 135 140
 His Cys Gln Tyr Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile
 145 150 155 160
 His Ser Ala Asn Val Leu His Arg Asp Leu Lys Pro Ser Asn Leu Leu
 165 170 175
 Val Asn Ala Asn Cys Asp Leu Lys Ile Cys Asp Phe Gly Leu Ala Arg
 180 185 190
 Pro Asn Ile Glu Asn Glu Asn Met Thr Glu Tyr Val Val Thr Arg Trp
 195 200 205
 Tyr Arg Ala Pro Glu Leu Leu Leu Asn Ser Ser Asp Tyr Thr Ala Ala
 210 215 220
 Ile Asp Val Trp Ser Val Gly Cys Ile Phe Met Glu Leu Met Asn Arg
 225 230 235 240
 Lys Pro Leu Phe Gly Gly Lys Asp His Val His Gln Ile Arg Leu Leu
 245 250 255
 Thr Glu Leu Leu Gly Thr Pro Thr Glu Ala Asp Leu Gly Phe Leu Gln
 260 265 270
 Asn Glu Asp Ala Lys Arg Tyr Ile Arg Gln Leu Pro Gln His Pro Arg
 275 280 285
 Gln Gln Leu Ala Glu Val Phe Pro His Val Asn Pro Leu Ala Ile Asp
 290 295 300
 Leu Val Asp Lys Met Leu Thr Phe Asp Pro Thr Arg Arg Ile Thr Val
 305 310 315 320
 Glu Glu Ala Leu Asp His Pro Tyr Leu Ala Lys Leu His Asp Ala Gly
 325 330 335
 Asp Glu Pro Ile Cys Pro Val Pro Phe Ser Phe Asp Phe Glu Gln Gln
 340 345 350
 Gly Ile Gly Glu Glu Gln Ile Lys Asp Met Ile Tyr Gln Glu Ala Leu
 355 360 365
 Ser Leu Asn Pro Glu Tyr Ala
 370 375